

BENCOR (Pty) Ltd.

Pressure valves



Shut-off valves type LV and ALZ

These shut-off valves automatically switches the pump delivery flow into idle circulation as soon as the adjusted pressure is achieved. There is a check valve upstream of the consumer port A preventing any reflow via the port R. The idle circulation switching position is interrupted as soon as the pressure in the consumer port drops approx. 13% under the set pressure figure. The self controlled valves type LV do not require any flow pulsation whereas type ALZ is a piloting valve.

Both types are mostly used as accumulator charge valves, and should be installed as near to the pump as possible.

Nomenclature: Shut-off valve
(idle circulation valve, direct controlled or piloted)

Design: Individual valve for pipe connection
Individual valve, manifold mounting

Adjustability: Tool adjustable
Manually adjustable

P_{max}: 350 bar

Q_{max}: 120 l/min



Basic types and general parameters

Basic type and size	LV		ALZ			Symbol
Control	direct		piloted			for pipe connection
Design	version for pipe connection manifold mounting valve					
Size	10	20	3	4	5	manifold mounting valve
Q_{max} (l/min)	12	25	50	80	120	
Pressure range:						
Pressure p_{max} (bar)	E: 140	E: 135	E: 140	E: 140	E: 140	
	D: 250	D: 220	D: 250	D: 250	D: 250	
	C: 350	C: 350	C: 350	C: 350	C: 350	
Tapped ports ¹⁾	G 1/4	G 3/8	G 1/2	G 3/4	G 1	

¹⁾ version for pipe connection

Additional versions

- Manually adjustable pressure setting, only type ALZ
- Arbitrary idle circulation via a 2/2-way solenoid valve, only type ALZ